

EPA Region 5 Records Ctr.



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SCREENING SITE INSPECTION REPORT
FOR
SWIFT AG CHEM--FAIRMONT CITY PLANT
AKA ESTECH BRAND FERTILIZER
U.S. EPA ID: ILD059995423
SS ID: NONE
TDD: F05-8612-077
PAN: FIL0055SB

MAY 2, 1990



ecology and environment, inc.

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MEMORANDUM

DATE: November 7, 1989
TO: William Messenger, Chief Pre-Remedial Unit
FROM: Jerome D. Oskvarek, FIT Office Manager
SUBJECT: Screening Site Inspection Transmittal Memorandum
CERCLIS Site Name: Swift Ag Chem - Fairmont City Plant E stock
City: East St. Louis
State: Illinois
U.S. EPA ID No.: ILD059995423
SSID No.: None
TDD No.: F05-8612-077
PAN: FIL00555B

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this memorandum, this memorandum and its attachments are not to be released. The draft/final (circle) Screening Site Inspection (SSI) report accompanies this transmittal memorandum and its attachments. Based on the information gathered during the SSI and other available information, the FIT has recalculated the preliminary and projected HRS 1 scores. These scores and factor values are presented below.

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Swift Ag Chem--Fairmont City Plant aka Estech Brand Fertilizer (Swift Ag) site under contract number 68-01-7347.

The site was initially identified to U.S. EPA when it was included on the Waste Disposal Site Survey presented in October 1979 to the Subcommittee on Oversight and Investigation of the Committee on Interstate and Foreign Commerce, 96th Congress. The site was included in the Illinois portion of this survey. The survey is commonly referred to as the Eckhardt Report.

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth L. Page of the Illinois Environmental Protection Agency (IEPA). The PA is dated April 4, 1986.

FIT prepared an SSI work plan for the Swift Ag site under technical directive document (TDD) F05-8612-077, issued on December 18, 1986. The SSI work plan was approved by U.S. EPA on June 1, 1989. The SSI of the Swift Ag site was conducted on August 2, 1989, under amended TDD F05-8612-077, issued on June 1, 1989.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of 12 soil/sediment samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation; the site representative interview; federal, state, and local file information reviewed by FIT; and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The Swift Ag site is located on approximately 10 acres of land on Kingshighway (SE1/4SE1/4 sec. 4, T.2N., R.9W.), south of Fairmont City, Illinois, in St. Clair County (see Figure 2-1 for site location). The city of East St. Louis, Illinois, lies approximately 1 mile southwest of the site. Rose Creek and Penn Central railroad tracks run adjacent to the site on its south side. A 4-mile radius map of the Swift Ag site is provided in Appendix A.

The Swift Ag site is an active chemical processing facility that currently produces fertilizers. Raw materials utilized at the site include potash, anhydrous ammonia, sulfuric acid, and phosphoric acid. Raw materials are brought in by truck or railroad and are dry-mixed and blended on-site prior to packaging and shipping of the fertilizers off-site. Both solid and liquid materials are used at the site. A wet scrubber, to control fine-particle air emissions, is present on-site.

2.3 SITE HISTORY

A fertilizer manufacturing facility has been in existence on the site property since 1931. The original owner of the facility was



SOURCE: Ecology and Environment, Inc. 1990; BASE MAP: USGS, Monks Mound, IL Quadrangle, 7.5 Minute Series, 1954, photorevised 1974.

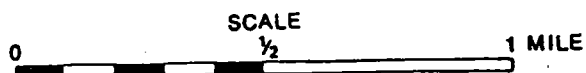


FIGURE 2-1. SITE LOCATION

Virginia Carolina Chemical Company. Subsequent owners have included Mobil Chemical Company (1967 to 1971), Swift and Company (1971 to 1983), and Beatrice, Inc. (1983 to 1986). During Swift and Company's ownership of the site property, the facility had several corporate names, including Swift Agricultural Chemicals Corporation, Esmarck, and Estech General Chemicals Corporation. The current owner of the facility is Vigoro industries (britt 1989).

File information indicates that the site has always been operated as a fertilizer production facility. Products currently produced at the facility include golf course, lawn, and garden fertilizers. Pesticides have been blended with the fertilizers produced since 1971 (Britt 1989).

Currently only dry-mix blending occurs at the site. However, in the past, the facility utilized both solid and liquid raw materials in a granulation process for fertilizer formation. A lightweight motor oil is currently added to the product to control fugitive dust (Britt 1989).

Previous waste disposal practices at the site have included the use of a reservoir and a settling basin for the deposition of slurry from the wet scrubber. The 1,000-gallon capacity reservoir was constructed of concrete, but was open to the atmosphere. Eventually, the reservoir was filled and its use was discontinued (Britt 1989).

Deposition of wet scrubber slurry in the settling basin occurred from early 1973 until mid 1975. The settling basin was lined with a naturally occurring clay layer. After use of the settling basin was discontinued, the area was excavated. The excavated material was deposited in the old reservoir and the settling basin area was covered with cinders (Britt 1989).

Several complaints have been received by IEPA concerning waste spills at the Swift Ag site. On August 21, 1973, the U.S. Coast Guard reported to IEPA that an unknown quantity of white material had been discharged from the Swift Ag site into Rose Creek, which runs along the southern boundary of the site. The discharge occurred when a sulfuric acid tank was being emptied and cleaned to repair a leak (Herz 1973). It was estimated that between 2,000 and 3,000 gallons of sulfuric acid and water were discharged to Rose Creek as a result of the spill (Britt 1989).

On March 3, 1975, an IEPA biologist working in the area of the Swift Ag site observed that water in a drainage ditch adjacent to the site's northern border was green. A conversation between IEPA representatives and the Swift and Company Plant Manager revealed that the green color was caused by a dye used to color fertilizer. The Plant Manager indicated that surface water runoff from the plant area into the drainage ditch occasionally caused the green color in the water (Merz 1975).

In 1985, a spill of approximately 1,000 gallons of oil allegedly occurred when a tank valve was mistakenly opened and oil leaked into Rose Creek. The spill was apparently cleaned up and the cleanup was inspected by IEPA representatives (Britt 1989).

Currently operations at the facility are permitted under IEPA operating permit #72100690, issued on July 17, 1989. The permit expires on July 17, 1991.

No enforcement actions are known to have occurred or are currently pending concerning the Swift Ag site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Swift Ag site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Swift Ag site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Regina Bayer, FIT team leader, conducted an interview with Robert Britt, Plant Manager for Vigaro Industries, on August 2, 1989, at 8:30 a.m. at the Swift Ag site. Scott Slagley, Hydrogeologist with Environmental Strategies Corporation, and Richard Fields, an attorney with Arnold & Porter, were in attendance at the interview on behalf of Vigaro Industries. Dan Sullivan of FIT was also present at the interview. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

On August 2, 1989, FIT conducted a reconnaissance inspection of the Swift Ag site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection was begun at 9:45 a.m. Britt, Slagley, Fields, and Thomas Miller of IEPA accompanied FIT during the reconnaissance

inspection. The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined exact sampling locations during the reconnaissance inspection.

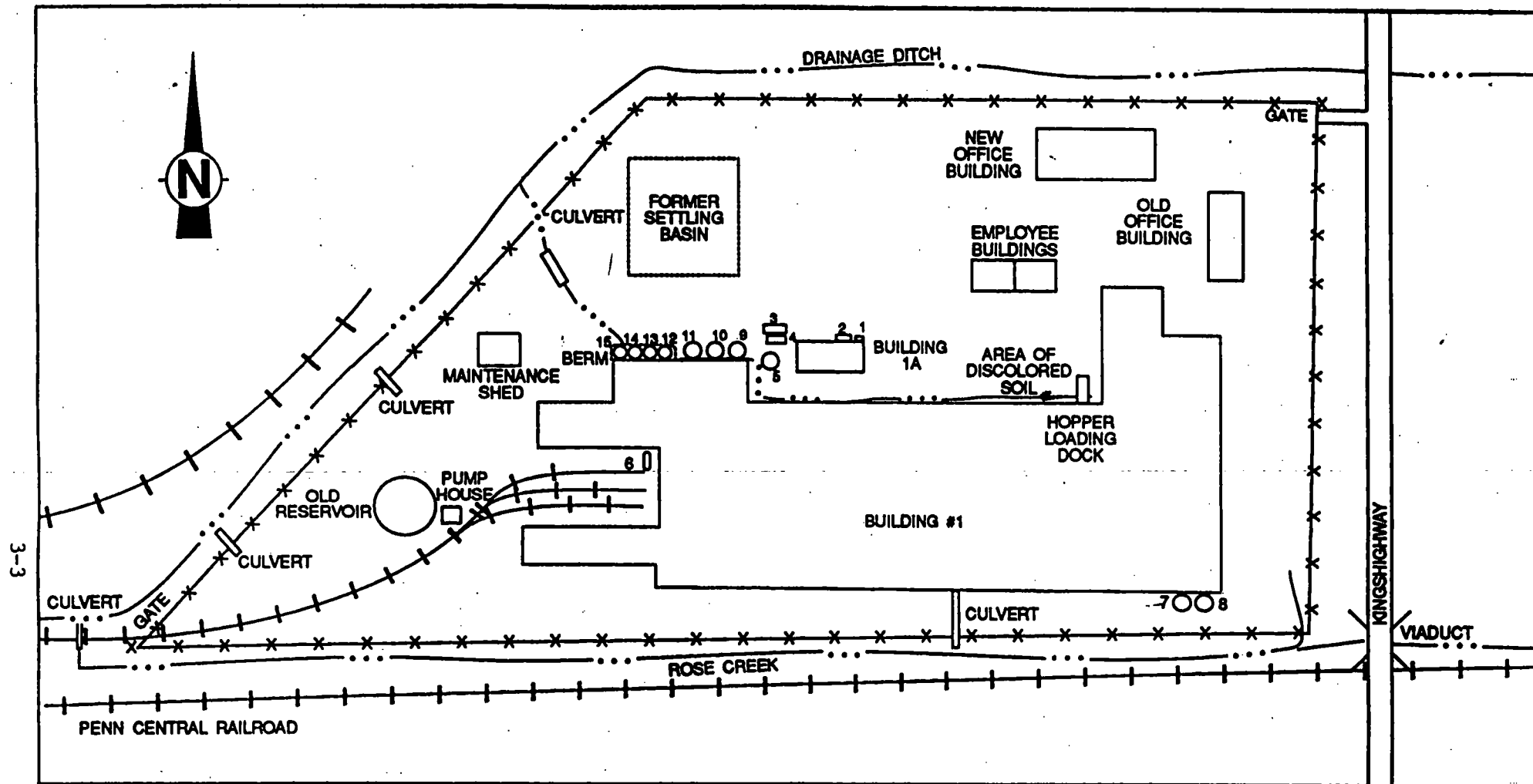
Reconnaissance Inspection Observations. The Swift Ag site is located south of Fairmont City, Illinois, on Kingshighway. The surrounding area is lightly industrialized. Other industries are located to the north, south, and east of the site. Railroad tracks and an open field are located to the west of the site.

The site area consists of seven buildings and fifteen chemical and oil storage tanks scattered throughout the property (see Figure 3-1 for locations of site features). The majority of the site area is covered by building #1, which houses most of the plant operations. Building #1, constructed of concrete and wood, appeared to be in very poor condition. In several locations FIT observed planks missing from portions of the building's walls. A hopper loading dock is located near the northeast corner of building #1. FIT observed areas of discolored soil near the hopper loading dock.

The main entrance to the site is located at the northeast corner and provides access from Kingshighway. An old office building, not currently used, is located near this entrance. A new office building is also located near this entrance. Two small employee buildings are located near building #1, in the northeast portion of the site.

Building #1A is located adjacent to building #1, to the north. A former oil tank (1), now empty, and a 10,000-gallon fuel oil tank (2) are located just north of building #1A. A 30,000-gallon anhydrous ammonia tank (3) and a 12,000-gallon sulfuric acid tank (4) are located at the northwest corner of building #1A, and a water tank (5) is located to the west of the building. The anhydrous ammonia and sulfuric acid tanks were both empty at the time of the SSI.

Seven additional tanks are located at the northwest corner of building #1. Three of the tanks (9, 10, and 11) are silos that have been empty since Swift and Company's ownership of the site. Four other tanks (12, 13, 14, 15), also located on the northwest corner of building #1, are surrounded by an earthen berm approximately 3 feet high. Tank



SOURCE: Ecology and Environment, Inc. 1990.

FIGURE 3-1 SITE FEATURES

12 was empty at the time of the site inspection, and its former use was unknown. Tanks 13 and 14 were once used to hold phosphoric acid, but were also empty. Tank 15 has a capacity of 12,000 gallons and is currently used for storage of dust-suppressant oil. A small maintenance shed is located to the northwest of building #1.

The location of the former settling basin is the northwest corner of the site. When use of the settling basin was discontinued, material from this area was excavated and deposited into the old reservoir, located to the west of building #1. The settling basin area was then covered with cinders. FIT observed an area of discolored soil near the location of the former settling basin.

The abandoned reservoir, into which the excavated material from the settling basin was placed, had a capacity of 1,000 gallons and had a concrete floor, but was open at the top. The reservoir has been partially filled with fertilizer slurry waste. Some fill material has since been bulldozed over the edge of the reservoir, mostly covering the waste. Portions of the filled-in reservoir are vegetated.

A propane tank (6) and several railroad spurs are located adjacent to building #1 on the west. Two additional propane tanks (7 and 8) are located at the southeast corner of building #1. An old pumphouse, containing a nonfunctioning well, is located between the old reservoir and the railroad spurs.

Several ditches were observed on-site during the reconnaissance inspection. A ditch containing greenish-tinted standing water was observed adjacent to building #1. This ditch runs from east to west along the north side of building #1, between the tanks and building #1, and then passes through a culvert before exiting the property near the northwest corner of the site.

A second ditch was observed at the southeast corner of the site. This ditch, which also contained greenish-tinted standing water, exits the site at the southeast corner and joins with Rose Creek. Rose Creek flows adjacent to the site's southern boundary between the site and the Penn Central railroad tracks.

Another drainage ditch was observed adjacent to the site on its north and west sides. The on-site ditch that exits the site at the northwest corner joins with this off-site ditch as it flows along the

west side of the site. This ditch also contains greenish-tinted water. Rose Creek passes through a concrete culvert and then joins with this ditch at the southwest corner of the site. These ditches, as well as Rose Creek, all appear to be manmade drainage ditches.

Additional culverts were observed at several locations on the west and south perimeters of the site. These culverts consisted of pipes that passed underneath the site fence.

The site is completely fenced. Two gates are present to allow access to the site: one at the entrance to the site from Kingshighway (northeast entrance) and one across the railroad spurs located at the southwest corner of the site. Photographs of the Swift Ag site are provided in Appendix C.

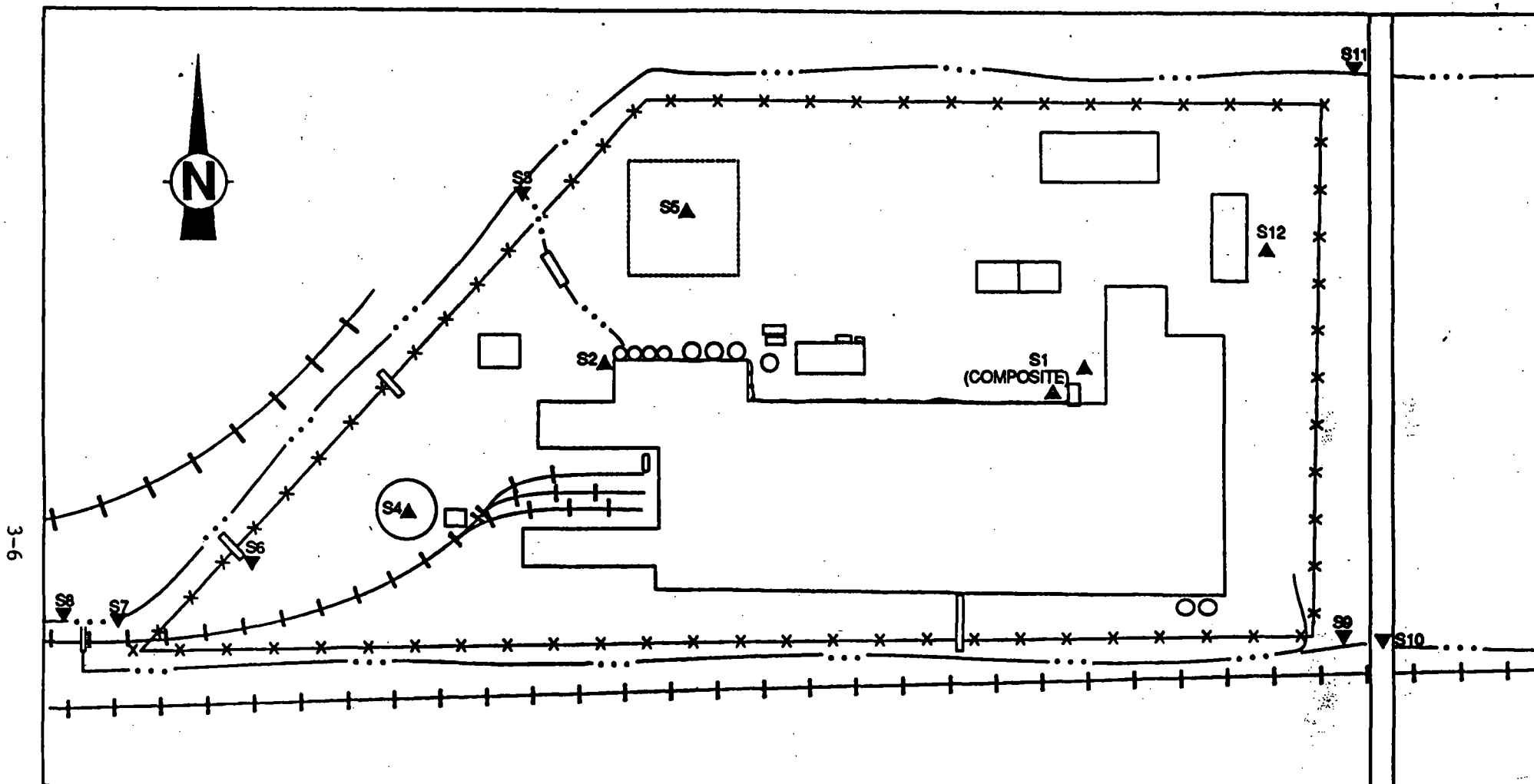
3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes were present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On August 2, 1989, FIT collected 12 soil/sediment samples, including one potential background soil sample. The site representatives did not accept offered portions of the FIT-collected samples.

Soil/Sediment Sampling Procedures. On-site soil/sediment samples S1, S2, S4, S5, and S6 were collected to determine whether TCL compounds and/or TAL analytes were present in soils and sediments at the Swift Ag site.

Soil sample S1 was a composite surface sample collected from two areas of stained soil located near the hopper loading dock adjacent to building #1 (see Figure 3-2 for soil/sediment sampling locations). Surface soil sample S2 was obtained from the area between building #1 and tank 15 (dust suppressant oil). Soil sample S4 was collected at a depth of approximately 6 inches from within the old reservoir. This sample was composed mainly of fertilizer slurry waste. Surface soil sample S5 was obtained from discolored soil in the area of the former settling basin. Sediment sample S6 was collected at a depth of 6 to 8 inches from within a culvert located at the southwest end of the site.



SOURCE: Ecology and Environment, Inc. 1990.



LEGEND

▲ SOIL

▼ SEDIMENT

FIGURE 3-2 SOIL/SEDIMENT SAMPLING LOCATIONS

Off-site sediment samples S3, S7, S8, S9, S10, and S11 were collected from the ditches and Rose Creek, which border the site on its north, west, and south sides. These samples were collected to characterize a potential migration pathway for TCL compounds and/or TAL analytes from the site via surface water.

Sediment sample S3 was obtained at a depth of approximately 6 inches from the ditch that runs from the north side of building #1 to the northwest side of the site, just prior to its confluence with the off-site ditch located on the west side of the site. Sediment sample S7 was collected at a depth of approximately 6 inches from the ditch located at the southwest corner of the site, just prior to its confluence with Rose Creek. Sediment sample S8 was collected at a depth of approximately 6 inches from this ditch just after its confluence with Rose Creek. Sediment sample S11 was obtained at a depth of approximately 1 foot from this ditch just prior to its reaching the northeast corner of the site.

Sediment sample S9 was collected at a depth of approximately 6 inches from the ditch located at the southeast corner of the site, just prior to its confluence with Rose Creek. Sediment sample S10 was obtained at a depth of approximately 1 foot from Rose Creek just prior to reaching the site at its southeast corner.

A potential background soil sample (indicated as S12) was collected on-site from beneath a tree in front of the old office building at the northeast corner of the site. The potential background soil sample was collected to determine the representative chemical content of the soil in the area surrounding the site. The location was chosen because the ground surface appeared to be in an undisturbed state.

All soil/sediment samples were obtained using a garden trowel or hand auger. Sample material was transferred to a stainless steel bowl, then placed in the sample bottles using the garden trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment with a solution of Alconox detergent and distilled water, and triple-rinsing the equipment with distilled water prior to the collection of each sample (E & E 1987).

All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures. As directed by U.S. EPA, all soil/sediment samples were analyzed under the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds by Wadsworth/Alert Laboratories, Inc., of Canton, Ohio, and for TAL analytes by Enseco/Rocky Mountain Analytical of Arvada, Colorado.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil/sediment samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Chemical analysis of FIT-collected soil/sediment samples revealed substances from the following groups of TCL compounds and TAL analytes: aromatics, halogenated hydrocarbons, phenols, phthalates, halogenated aromatics, polyaromatic hydrocarbons (PAHs), pesticides, metals, heavy metals, cyanide, common laboratory artifacts (methylene chloride, acetone, 2-butanone, toluene, di-n-butylphthalate, butylbenzylphthalate, and bis[2-ethylhexyl]phthalate), and common soil constituents (see Table 4-1 for complete chemical analysis results of FIT-collected soil/sediment samples).

U.S. EPA CLP quantitation/detection limits used in the analysis of FIT-collected soil/sediment samples are provided in Appendix D.

Sample Collection Information
and Parameters

SI

Date	8/3/89	8/3/89
Time	1100	1100
CLP Organic Traffic Report Number	EFA12	EL12
CLP Inorganic Traffic Report Number	MHEF12	MHEF12

Compound Detected
(values in $\mu\text{g/kg}$)

Volatile Organics

methylene chloride	53	
acetone	--	--
2-butanone (MEK)	--	--
benzene	--	--
tetrachloroethene	--	--
toluene	53	11
ethylbenzene	--	--
xylene (total)	--	--

Semivolatile Organics

2,4-dichlorophenol	--	--
naphthalene	--	81
4-chloro-3-methylphenol	--	--
2-methylnaphthalene	--	41
acenaphthylene	--	45
acenaphthene	--	--
dibenzofuran	--	--
diethylphthalate	--	--
fluorene	--	--
hexachlorobenzene	--	98
phenanthrene	660	250
anthracene	1200	--
di-n-butylphthalate	--	--
fluoranthene	2,300	330
pyrene	3,900	480
butylbenzylphthalate	1600	--
benzo[a]anthracene	1,000	230
chrysene	2,000	360
bis(2-ethylhexyl)phthalate	6,100	1,400
benzo[b]fluoranthene	2,600	430
benzo[k]fluoranthene	1,300	310
benzo[a]pyrene	1,700	270
indeno[1,2,3-cd]pyrene	1,400	320
dibenzo[a,h]anthracene	240	--
benzo[g,h,i]perylene	--	320

Table 4-1 (Cont.)

Sample Collection Information and Parameters		\$1
<u>Pesticides/POCs</u>		
Heptachlor	--	--
Dieldrin	390	21
4,4'-DDT	--	--
4,4'-DDE	--	--
alpha Chlordane	--	--
gamma Chlordane	230J	--
<u>Analyte Detected</u> (values in mg/kg)		
aluminum	10,400	7,60
antimony	13.4B	--
arsenic	13.73NWB	6.
barium	127	83.
beryllium	1.8	1.
cadmium	28.7	27.
calcium	163,000	172,00
chromium	51.6	--
cobalt	14	6.
copper	1,530JA	68.
iron	21,800	18,50
lead	523JN	1,79.
magnesium	8,690	6,690
manganese	3,980	2,650
mercury	0.43N	0.1
nickel	59.4	3.
potassium	6,310	3,980
selenium	--	--
silver	31.50AN	2.
sodium	--	--
thallium	1.2J+B	--
vanadium	59.3	56.2
zinc	8,210	27,400
cyanide	--	2.8

-- Not Detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIERS

J	Indi
C	This monantitative. 100
D	This at a

ANALYTE QUALIFIERS

N	Spike possi See s
A	Dupli possi
+	Corra 0.995
B	Value
J	Value protoc
W	Post-c contrc spike

Source: Ecology and Environment, Inc. 1990.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section contains a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and TAL analytes that may be attributable to the Swift Ag site. The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

No groundwater samples were collected during the SSI of the Swift Ag site because of the location of the site within the boundaries of an area serviced by the Illinois-American Water Company, which utilizes surface water as its source of drinking water (Illinois-American Water Company 1984). However, a potential exists for TCL compounds and/or TAL analytes to migrate from the site into groundwater, based on the history of the site as an active chemical processing facility, the geology in the area of the site, and the presence of TCL compounds and TAL analytes in the on-site soil/sediment samples collected by FIT.

TCL compounds and TAL analytes were detected in soil/sediment samples collected on-site. Specific compounds detected include Dieldrin at 4,000D µg/kg in S6, and gamma Chlordane at 230J µg/kg and 350J µg/kg in S1 and S6, respectively (see Table 4-1 for definition and interpretation of qualifiers). Lower concentrations of these compounds and analytes were also detected in other on-site samples collected by FIT. These compounds and analytes were detected at concentrations significantly

greater than those detected in the background soil sample (S12). Therefore, attribution of these compounds and analytes to the Swift Ag site is highly probable.

Other TCL compounds and TAL analytes detected in on-site soil/sediment samples were either not detected or were detected at lower concentrations in the background soil sample, S12. Among these are phenanthrene and other PAHs, zinc, lead, cadmium, and chromium. The presence of these compounds and analytes in on-site soil/sediment samples may also be attributable to the Swift Ag site. However, the presence of other industrial sources in the area, as well as nearby railroad tracks, may also be contributing sources of TCL compounds and/or TAL analytes detected in soils and sediments collected from the Swift Ag site.

The potential migration of TCL compounds and TAL analytes to groundwater is directly influenced by the geology of the area surrounding the site. The Swift Ag site is located in the American Bottoms Area of the Mississippi River Valley. The American Bottoms Area is a nearly level area of bottom land in the Mississippi River floodplain. Unconsolidated material in the area averages 120 feet and consists mainly of recent, fine-grained alluvial deposits (clays, silts, and fine sands) overlying glacial valley train deposits. The glacial deposits are predominantly medium-to-coarse sands and gravels, increasing in grain size with depth, and interbedded clay lenses. This glacial material provides most of the groundwater used in the area and comprises the aquifer of concern. According to area well logs, the depth to the aquifer of concern ranges from 30 to 110 feet (area well logs are provided in Appendix E).

Underlying the glaciofluvial material are Pennsylvanian bedrock layers of limestone and dolomite, with subordinate layers of shale and sandstone. The bedrock in this area is characterized by low permeability and poor water quality and is not an important aquifer (Illinois State Water Survey 1965).

According to well logs of the area, no continuous confining layer exists between the surface and the bedrock in the area of the site. Area well logs also indicate that well depths in the area of the site range from 30 to 110 feet.

Historically, groundwater flow in the area of the site was believed to be from north to south. However, heavy pumping of groundwater in the East St. Louis area has apparently resulted in a shift in groundwater flow to a northeast to southwest direction (Allied and General Chemical Corporations 1987).

Most of the population within a 3-mile radius of the site, including residents of the municipalities of East St. Louis and Washington Park, uses surface water obtained from the Mississippi River and purchased from Illinois-American Water Company as a drinking water source (Illinois-American Water Company 1984; Davis 1985; Olendorf 1985). However, approximately 4,235 people draw drinking water from private and municipal wells finished in the aquifer of concern within a 3-mile radius of the site. This figure includes those served by groundwater from the Mound Public Water system, which services approximately 2,500 people. The Mound Public Water wells are approximately 100 to 110 feet deep and are located approximately 2 1/2 miles northeast of the site (Strother 1985).

Using the United States Geological Survey (USGS) French Village, Monks Mound, Cahokia, and Granite City, Illinois quadrangle topographic maps (USGS 1954), 263 homes were counted within a 3-mile radius of the site. Using St. Clair County 1980 Census information (U.S. Bureau of the Census 1982), an average of 2.89 persons per household was used to calculate the population. Therefore, approximately 760 persons use private wells as a source of drinking water within a 3-mile radius of the site. Approximately 650 acres of land used for growing food crops are irrigated by groundwater from the aquifer of concern within a 3-mile radius of the site (Hardiman 1985, 1985a, 1985b; Metz 1985). Using a factor of 1.5 persons per acre, a population of 975 utilizes groundwater for irrigation in the site area. The total target population within a 3-mile radius of the site using groundwater from the aquifer of concern, then, is approximately 4,235.

5.3 SURFACE WATER

No surface water samples were collected as a part of the SSI of the Swift Ag site. However, the site is bounded on its north and west sides by drainage ditches. Rose Creek runs along the south boundary of the

site. Rose Creek, a manmade ditch that has been used in the past for wastewater discharges and storm water runoff, flows from the area of the site to Old Cahokia Creek, which lies approximately 1 mile northwest of the site.

Other surface water bodies located nearest to the Swift Ag site are Old Cahokia Creek and Schoenberger Creek, which lies approximately 3/4 miles to the south of the site. The Mississippi River, approximately 4 1/2 miles west of the site, is utilized for drinking water; however, the drinking water intakes in the Mississippi are more than 3 miles from the Swift Ag site.

A migration route does exist for TCL compounds and TAL analytes to migrate from the site by a surface water pathway. Culverts were observed leading from the site to the drainage ditches and to Rose Creek.

TCL compounds and TAL analytes were detected in sediment samples collected from the drainage ditches and from Rose Creek. Specific compounds detected include the pesticides gamma Chlordane at 1,700DJ $\mu\text{g}/\text{kg}$ and 430DJ $\mu\text{g}/\text{kg}$ in S3 and S7, respectively; and Dieldrin at 290 $\mu\text{g}/\text{kg}$ and 340DJ $\mu\text{g}/\text{kg}$, also in S3 and S7, respectively. The concentrations of compounds detected in these samples were significantly greater than those detected in corresponding background sediment samples. These compounds were also detected at lower concentrations in on-site soil/sediment samples. Because pesticides and fertilizers are known to be present on-site, their presence in the drainage ditches is therefore attributable to the Swift Ag site.

5.4 AIR

A release of potential contaminants to the air was not documented during the SSI of the Swift Ag site. During the reconnaissance inspection, a reading above background was noted on FIT site-safety screening equipment. The presence of other industries in the area makes the source of this reading difficult to determine. Further air monitoring would be required to determine the exact source. Other FIT site-entry instruments (oxygen meter, explosimeter, hydrogen cyanide monitor, and radiation monitor) did not detect levels above background concentrations during the reconnaissance inspection. In accordance with

the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

Because of the presence of TCL compounds and TAL analytes in on-site surface soils, a potential exists for windblown particulates to carry TCL compounds and TAL analytes from the site. The population within a 4-mile radius of the site potentially affected by windblown particulates is approximately 64,830 persons. This figure was obtained by using USGS topographic maps (USGS 1954) to count 1,557 homes within a 4-mile radius of the site. Using St. Clair County 1980 Census information (U.S. Bureau of the Census 1982), an average of 2.89 persons per household was used to calculate a population of 4,500. This figure was added to the population of the city of Washington Park (approximately 7,830 persons), the population served by the Mound Public Water supply (2,500), and the population served by Collinsville Water Department (10,000), all of which lie within a 4-mile radius of the site. A planimeter was used to determine the portion of the population of East St. Louis which lies within a 4-mile radius of the site (40,000). The total air target population then, includes 64,830 persons within a 4-mile radius of the Swift Ag site.

5.5 FIRE AND EXPLOSION

FIT observations and explosimeter readings indicated no apparent potential for fire and/or explosion at the Swift Ag site.

5.6 DIRECT CONTACT

According to federal, state, and local file information, as reviewed by FIT, no documentation exists of an incident of direct contact with TCL compounds or TAL analytes at the Swift Ag site.

A potential for the public to come into direct contact with TCL compounds and TAL analytes on-site does not exist because fencing completely surrounds the site.

There are currently 5 employees at the Swift Ag site. However, during peak operation, up to 25 workers may be employed at the site. A potential for these workers to come into direct contact with TCL compounds and TAL analytes does exist because these compounds and analytes were detected in on-site soil/sediment samples collected by FIT.

In addition, because TCL compounds and TAL analytes were detected in samples obtained from off-site drainage ditches and from Rose Creek, a potential does exist for the public to come into direct contact with these compounds and analytes.

The target population includes 8,954 persons living within a 1-mile radius of the site. This population was determined using a USGS topographic map of the area (USGS 1954) to determine the number of residences within a 1-mile radius of the site. This number was multiplied by the St. Clair County Census average of 2.89 persons per household. A planimeter was then used to determine the portion of the populations of East St. Louis and Washington Park that fall within a 1-mile radius of the site. These numbers were added together to determine the total direct contact target population of 8,954 persons.

6. REFERENCES

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_____, September 6, 1985a, 2:30 p.m., University of Illinois Cooperative Extension Service, St. Clair County, Illinois, telephone conversation, contacted by Kevin Sobnosky of E & E.

_____, September 27, 1985b, University of Illinois Cooperative Extension Service, St. Clair County, Illinois, telephone conversation, contacted by Kevin Sobnosky of E & E.

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_____, March 7, 1975, Collinsville Unit, IEPA, Collinsville, Illinois, memorandum, to Division of Water Pollution Control, Field Operations Section, IEPA, concerning green discharge in drainage ditch near the Swift Ag site.

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Olendorf, Katie, August 22, 1985, Office Manager, Caseyville Water Department, Caseyville, Illinois, telephone conversation, contacted by Kevin Sobnosky of E & E.

Strother, Rowdean, August 19, 1985, Mound Public Water District, State Park Place, Illinois, telephone conversation, contacted by Kevin Sobnosky of E & E.

U.S. Bureau of the Census, 1982, 1980 Census of Population, Volume I, Characteristics of the Population, Illinois.

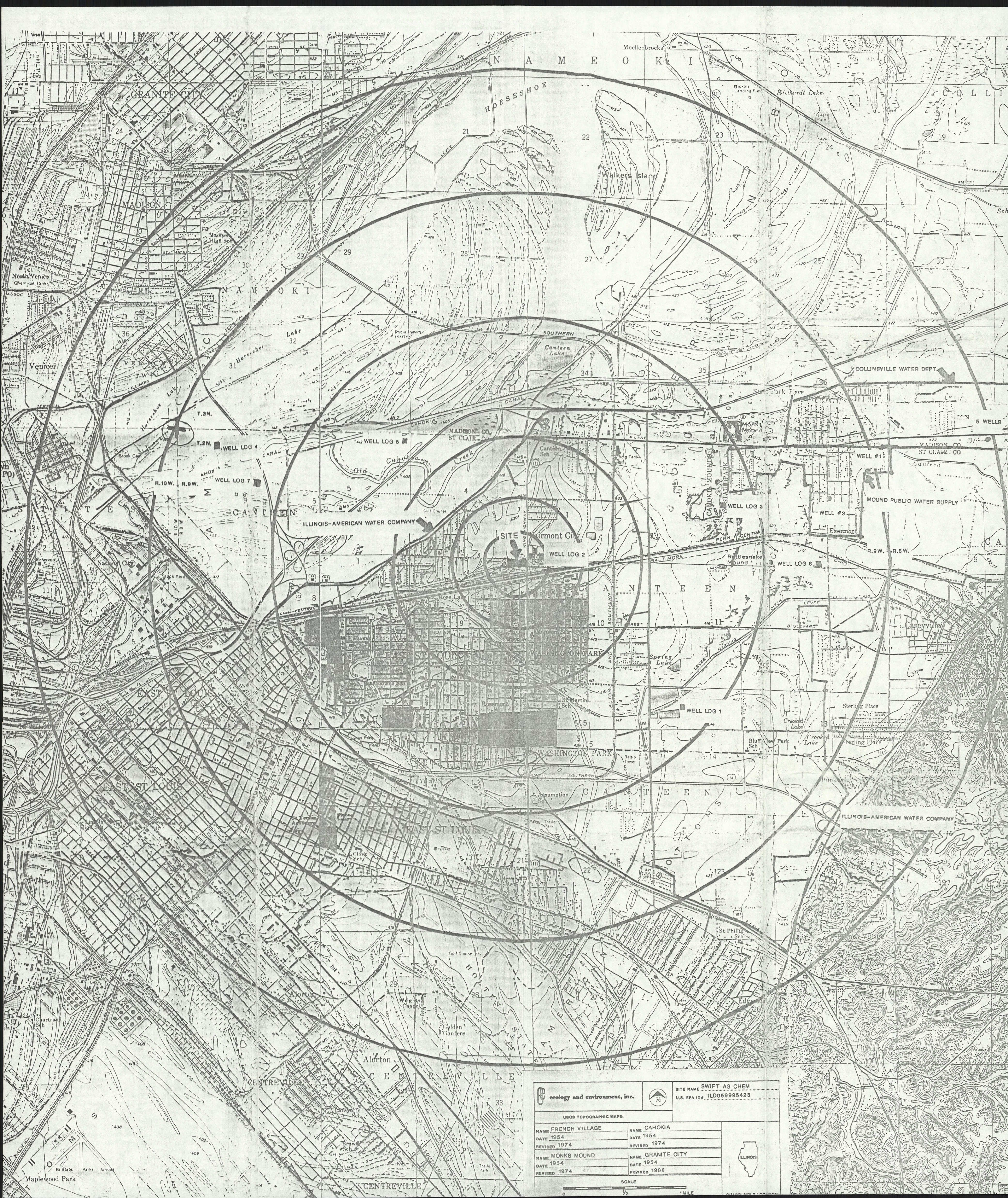
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4156:1

APPENDIX A

SITE 4-MILE RADIUS MAP

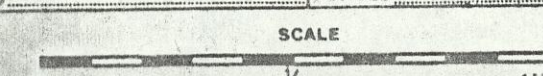



ecology and environment, inc.

SITE NAME SWIFT AG CHEM
U.S. EPA ID# IL0059995423

USGS TOPOGRAPHIC MAPS:

NAME FRENCH VILLAGE	NAME CAHOKIA
DATE 1954	DATE 1954
REVISED 1974	REVISED 1974
NAME MONKS MOUND	NAME GRANITE CITY
DATE 1954	DATE 1954
REVISED 1974	REVISED 1988

SCALE
0 1/2 1 MILE

ILLINOIS

APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I IDENTIFICATION

01 STATE IL 02 SITE NUMBER D059995423

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Swift Ag Chem. - Fairmont City Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 2501 N. Kingshighway			
03 CITY East St. Louis	04 STATE IL	05 ZIP CODE 61107	06 COUNTY St. Clair	07 COUNTY CODE 163	08 CONG DIST 21
09 COORDINATES LATITUDE 38 52 58.0 LONGITUDE 090 12 20.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 8.2.89 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1931 Present BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR Ecology Environment, Inc. <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

05 CHIEF INSPECTOR Regina Bayer	06 TITLE Water Chemist	07 ORGANIZATION E: E/FIT	08 TELEPHONE NO. 312-663-9415
09 OTHER INSPECTORS William Perpich	10 TITLE Water Resource Manager	11 ORGANIZATION E: E/FIT	12 TELEPHONE NO. 312-663-9415
Jeff Dickson	Geologist	E: E/FIT	312-663-9415
Ted Nehrkorn	Environmental Engineer	E: E/FIT	312-663-9415
Dan Sullivan	Chemical Engineer	E: E/FIT	312-663-9415
			()

13 SITE REPRESENTATIVES INTERVIEWED Robert Britt	14 TITLE Plant Manager	15 ADDRESS Vigaro Industries Fairmont City, IL 62208	16 TELEPHONE NO. 618-271-1208
Scott A. Slagley	Consultant/ Hydrogeologist	Environmental Strategies Corp. Vienna, Virginia 22182	(703) 821-3700
Richard W. Fields	Attorney	Arnold & Porter Washington D.C. 20036	(202) 872-6720
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 0810 - 1545	19 WEATHER CONDITIONS hazy, sunny, temp. ~ 90°F
--	--------------------------------------	--

IV. INFORMATION AVAILABLE FROM

01 CONTACT Thomas Crause	02 OF (Agency/Organization) IL Environmental Protection Agency	03 TELEPHONE NO. 217-782-9818		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Karen M. Spangler	05 AGENCY U.S. EPA	06 ORGANIZATION E: E/FIT	07 TELEPHONE NO. 312-663-9415	08 DATE 11.7.89 MONTH DAY YEAR



EPA FORM 2070-13(7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE 02 SITE NUMBER
IL D059995123

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ~4,235
See section 5.2 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0
See section 5.3 of narrative for details.
02 ☒ OBSERVED (DATE: 8/2/89)
04 NARRATIVE DESCRIPTION
☐ POTENTIAL ☐ ALLEGED

01 ☒ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: ~4,830
See section 5.4 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
See section 5.5 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☐ POTENTIAL ☐ ALLEGED

01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: ~8951
See section 5.6 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 10.2
(Acres)
See section 5.7 of narrative for details.
02 ☒ OBSERVED (DATE: 8/2/89)
04 NARRATIVE DESCRIPTION
☐ POTENTIAL ☐ ALLEGED

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ~4,235
See section 5.2 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED

01 ☒ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 5
See section 5.6 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED

01 ☒ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: ~4,830
See section 5.4 of narrative for details.
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION
☒ POTENTIAL ☐ ALLEGED



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D059995123

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

No damage to flora was observed during the site inspection. However, a potential for damage to flora does exist since TCL compounds and TAL analytes were detected in drainage ditches and Rose Creek, located adjacent to the site.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

No damage to fauna was observed during the site inspection. However, a potential for damage to fauna does exist since TCL compounds and TAL analytes were detected in drainage ditches and Rose Creek, located adjacent to the site.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☒ POTENTIAL ☐ ALLEGED

Contamination of the food chain is possible due to the potential for migration of TCL compounds and TAL analytes into groundwater. Within a 4-mile radius of the site, ~650 acres of land are used for irrigation of food crops (sweet corn and horseradish).

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Punctured Containers, Leaking Drums)

02 ☒ OBSERVED (DATE: 8/2/89) 1

☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: ~41,880

04 NARRATIVE DESCRIPTION

See section 2.3 for details on past spills on-site.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 8/2/89) 1

☐ POTENTIAL ☐ ALLEGED

TCL compounds and TAL analytes were detected in Rose Creek and several drainage ditches located adjacent to the site.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☐ POTENTIAL ☐ ALLEGED

None observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) 1

☐ POTENTIAL ☐ ALLEGED

None known.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None noted.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~64,830

IV. COMMENTS

The East St. Louis area is very industrialized. Therefore, other potential sources of TCL compounds and TAL analytes may exist.

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

E/E/FIT Site Inspection 1989.
E/E/FIT Files, Region IV.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER 0059995123

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPOC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify) IEPA	72100690	7/17/89	7/17/91	Operating permit
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT	1,000	gal	<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	~15
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	Unknown	Unknown	<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER none (Specify)	
<input checked="" type="checkbox"/> I. OTHER settling basin (Specify)	Unknown			06 AREA OF SITE

07 COMMENTS

A: The above ground reservoir was used for deposition of wet scrubber slurry. Eventually, it was filled with solids, and its use was discontinued.
D: Approximately 15 different above ground storage tanks are located on-site. See section 2.3 of narrative for details.
I: The settling basin was used from 1973-1975 for deposition of wet scrubber slurry. was covered with cinders upon discontinuation of its use.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, Diking, LINERS, BARRIERS, ETC.

The settling basin was lined with a naturally occurring clay layer.
Four of the above-ground storage tanks are surrounded by an earthen berm approximately 3 feet high.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS The site is completely fenced.

VI. SOURCES OF INFORMATION (Check specific references, e.g. state files, sample analysis, records)

E/E/FIT Site Inspection, 1989.
E/E/FIT Files, Region V.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D059995423

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all that apply)	02 STATUS	03 DISTANCE TO SITE												
<table border="0"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table border="0"><tr><td>ENDANGERED A. <input type="checkbox"/></td><td>AFFECTED B. <input type="checkbox"/></td><td>MONITORED C. <input checked="" type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED A. <input type="checkbox"/>	AFFECTED B. <input type="checkbox"/>	MONITORED C. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. 2.5 (mi) B. 20.5 (mi)
SURFACE	WELL													
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>													
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>													
ENDANGERED A. <input type="checkbox"/>	AFFECTED B. <input type="checkbox"/>	MONITORED C. <input checked="" type="checkbox"/>												
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>												

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL IRRIGATION
(Limited other source available)

☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL			
~4,235	~0.5 (mi)			
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
30-110 (m)	SW	30-110 (m)	UNK (gpd)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See section 5.2 of narrative for details.

10 RECHARGE AREA	11 DISCHARGE AREA
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS: primary recharge through precipitation infiltration	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS: potential discharge area for local groundwater Flow is Schoenberger Creek

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Old Cahokia Creek	<input type="checkbox"/>	~1 (mi)
Schoenberger Creek	<input type="checkbox"/>	~0.75 (mi)
Rose Creek	<input type="checkbox"/>	~0.1 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN	02 DISTANCE TO NEAREST POPULATION						
<table border="0"><tr><td>ONE (1) MILE OF SITE</td><td>TWO (2) MILES OF SITE</td><td>THREE (3) MILES OF SITE</td></tr><tr><td>A. ~8951 NO. OF PERSONS</td><td>B. ~24860 NO. OF PERSONS</td><td>C. ~41880 NO. OF PERSONS</td></tr></table>	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	A. ~8951 NO. OF PERSONS	B. ~24860 NO. OF PERSONS	C. ~41880 NO. OF PERSONS	~1/8 (mi)
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE					
A. ~8951 NO. OF PERSONS	B. ~24860 NO. OF PERSONS	C. ~41880 NO. OF PERSONS					

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
~6,542	~500 ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The area to the west and south of the site is a densely populated urban area. The area to the north and east of the site is less densely populated with isolated areas of flood-prone lands.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D059995423

VI ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-8} - 10^{-6} cm/sec ☐ B. 10^{-4} - 10^{-6} cm/sec ☒ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-8} cm/sec)
☐ B. RELATIVELY IMPERMEABLE
(10^{-4} - 10^{-6} cm/sec)
☒ C. RELATIVELY PERMEABLE
(10^{-2} - 10^{-4} cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~80-110 (m)

04 DEPTH OF CONTAMINATED SOIL ZONE

Unknown (m)

05 SOIL pH

Unknown

06 NET PRECIPITATION

- 1 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE
SITE SLOPE

~1 %

DIRECTION OF SITE SLOPE

S

TERRAIN AVERAGE SLOPE

~1 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

NA

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (3 acre minimum)

ESTUARINE

A. NA (m)

OTHER

B. ~1 (m)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

~1 (m)

ENDANGERED SPECIES: Indiana Bat

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0 (m)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. ~1/4 (m)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. NA (m) D. ~1/4 (m)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Refer to 4-mile radius map - see Appendix A.

VII SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

E/E/FIT Site Inspection, 1989.

U.S. Climatic Atlas, 1979.

U.S.G.S. Topographic Map - French Village, Monks Mound,
Cahokia, and Granite City Quadrangles.

E/E/FIT Files, Region 7.

Soil Survey of St. Clair County.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D059995423

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	12	TCL: Wadsworth/Alert Labs, Inc. Canton OH TAL: Enzeo/RMAL Arvada CO	On File.
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Radiation Mini-Alert	No measurements above background.
Oxygen Meter	No measurements above background.
Explosimeter	No measurements above background.
Draeger pump w/ H ₂ S tubes	No measurements above background.
DVA-128	15ppm methane detected at west end of plant.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology; Environment, Inc. Chicago, IL <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology; Environment, Inc. Chicago, Illinois

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None collected.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., data files, sample analysis, reports)

E & E/FIT Site Inspection, 1989.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D05A995423

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Vigaro Industries		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Savannah		06 STATE GA	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME NA		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME NA		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME NA		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME Beatrice, Inc.		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME Swift Company / Esmark		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME Mobil Chemical Company		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E!E/FIT Site Inspection, 1989.
E!E/FIT Files, Region II.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D059995423

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME Vigaro Industries		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2501 N. Kingshighway		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY East St. Louis		06 STATE IL	07 ZIP CODE 61107	14 CITY /		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1986-Present		09 NAME OF OWNER Vigaro Industries					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME Beatrice, Inc.		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1983-1986		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME Swift & Company / Esmarck		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1971-1983		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME Mobil Chemical Company		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 1967-1971		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E/E/FIT Site Inspection 1989.
E/E/FIT Files, Region II.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D05A995423

II. ON-SITE GENERATOR

01 NAME Vigaro Industries	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2501 N. Kingshighway	04 SIC CODE
05 CITY East St. Louis	06 STATE IL
07 ZIP CODE 61107	

III. OFF-SITE GENERATOR(S)

01 NAME NA	02 D+B NUMBER	01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME NA	02 D+B NUMBER	01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME NA	02 D+B NUMBER	01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	
01 NAME NA	02 D+B NUMBER	01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	05 CITY	06 STATE
07 ZIP CODE		07 ZIP CODE	

V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis reports)

E/E/FIT Site Inspection, 1989.
E/E/FIT Files, Region II.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D059995423

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

NA

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D059995123

II PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION NA	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION None known.	02 DATE _____	03 AGENCY _____

III SOURCES OF INFORMATION (On specific references, e.g., state files, sample analysis, reports)

E!E/FIT Site Inspection, 1989.
E!E/FIT Files, Region V.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D059995123

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

See section 2.3 of narrative for details.

III. SOURCES OF INFORMATION (On specific references, e.g., state files, sample analysis, reports)

E/E/FIT Site Inspection 1989.
E/E/FIT Files, Region II.

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 1 OF 20

U.S. EPA ID: ILD059995123 TDD: F05-8612-077 PAN: FIL005553

DATE: 8/2/89

TIME: 1216

DIRECTION OF
PHOTOGRAPH:
West-northwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Sign at front/main entrance to plant.

DATE: 8/2/89

TIME: 1216

DIRECTION OF
PHOTOGRAPH:
West

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Old office building to the left, main gate in foreground, new office building in the background.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 2 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1219

DIRECTION OF
PHOTOGRAPH:
Southwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Main plant building in the background,
employee buildings in the right foreground.

DATE: 8/2/89

TIME: 1220

DIRECTION OF
PHOTOGRAPH:
West

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Drainage ditch located on the north side
of the main plant building, building 1A is located
on the right.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 3 OF 20

U.S. EPA ID: ILD059995123 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1212

DIRECTION OF
PHOTOGRAPH:
Southwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Building 1A, empty anhydrous ammonia and sulfuric acid tanks located to the right, empty silos in the center.

DATE: 8/2/89

TIME: 1240

DIRECTION OF
PHOTOGRAPH:
South

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Four tanks located on the north side of the main plant building (tanks 12, 13, 14, 15).

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 4 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077

PAN: FIL00555B

DATE: 8/2/89

TIME: 1212

DIRECTION OF
PHOTOGRAPH:

West

WEATHER
CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID
(if applicable):

NA



DESCRIPTION: Paved area located north of the main plant building, location of the former settling basin.

DATE: 8/2/89

TIME: 1218

DIRECTION OF
PHOTOGRAPH:

Northwest

WEATHER
CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID
(if applicable):

NA



DESCRIPTION: Tire retreading facility located adjacent to the site on the north side.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem-Fairmont City Plant

PAGE 5 OF 20

U.S. EPA ID: ILD059995A23 TDD: FD5-8612-077

PAN: FI L00555B

DATE: 8/2/89

TIME: 1400

DIRECTION OF
PHOTOGRAPH:
West

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: View of the south side of the main plant
building from the southeast corner of the site.

DATE: 8/2/89

TIME: 1400

DIRECTION OF
PHOTOGRAPH:
North-northwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: View of the east side of the main plant
building from the southeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem- Fairmont City Plant PAGE 6 OF 20

U.S. EPA ID: ILD059995423 TOD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1305

DIRECTION OF
PHOTOGRAPH:
East-northeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Gate located at the southwest corner of
the site.

DATE: 8/2/89

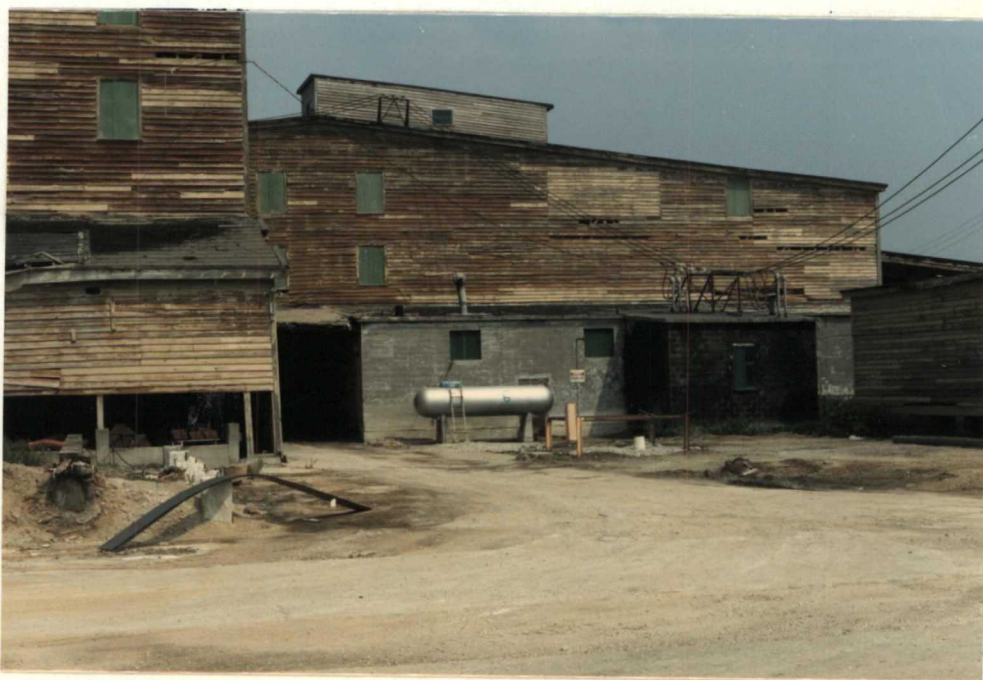
TIME: 1500

DIRECTION OF
PHOTOGRAPH:
East

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: View of the west side of the main plant
building and propane tank.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 7 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL0055SB

DATE: 8/2/89

TIME: 1305

DIRECTION OF
PHOTOGRAPH:
East

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Ditch located adjacent to the site on the south.

DATE: 8/2/89

TIME: 1305

DIRECTION OF
PHOTOGRAPH:
West

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Ditch located adjacent to the site on the north from the northeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem-Fairmont City Plant PAGE 8 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL0055513

DATE: 8/2/89

TIME: 1305

DIRECTION OF
PHOTOGRAPH:
East-northeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Ditch located adjacent to the site on the
northwest From the southwest corner of the site.

DATE: 8/2/89

TIME: 1455

DIRECTION OF
PHOTOGRAPH:
Southwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
NA



DESCRIPTION: Old reservoir in background, which was
utilized for deposition of scrubber slurry.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem-Farmont City Plant PAGE 9 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL0055SB

DATE: 8/2/89

TIME: 1100

DIRECTION OF
PHOTOGRAPH:
East-southeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
51



DESCRIPTION: Soil sample 51.

Close-up view.

DATE: 8/2/89

TIME: 1100

DIRECTION OF
PHOTOGRAPH:
East-southeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
51



DESCRIPTION: Soil sample 51.

Perspective view. Composite surface soil sample collected near the hopper loading dock on the north side of the main plant building (1).

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant

PAGE 10 OF 20

U.S. EPA ID: ILD059995123 TDD: F05-8612-077

PAN: FIL0055SB

DATE: 8/2/89

TIME: 1110

DIRECTION OF
PHOTOGRAPH:

North

WEATHER

CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

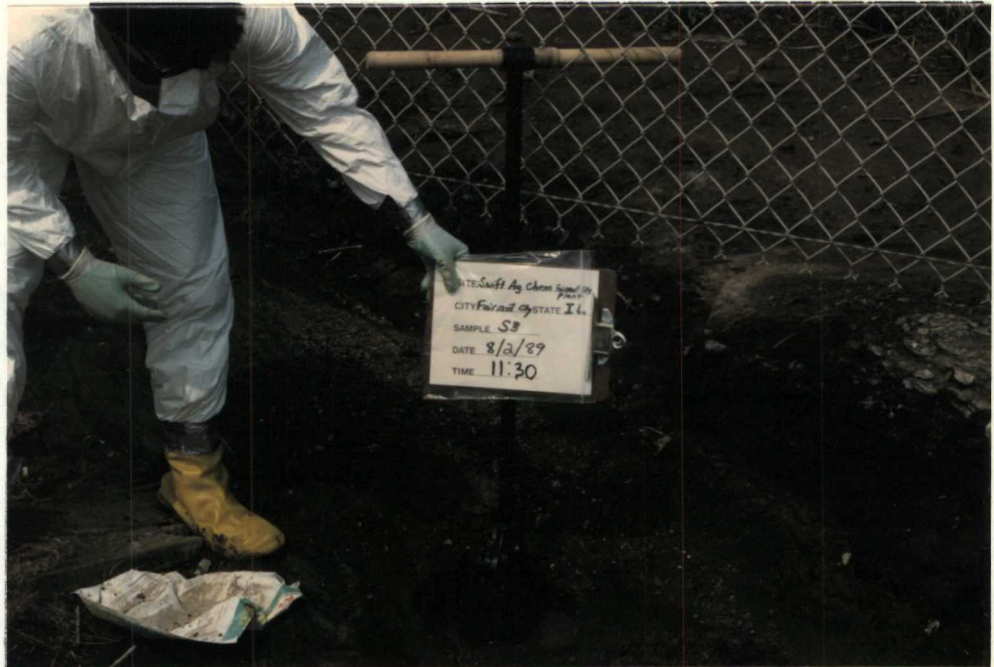
(if applicable):

52



DESCRIPTION: Soil sample 52.

Perspective view. Surface soil sample collected between the
dust suppressant oil tank and the main plant building (1).

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 11 OF 20U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL0055SBDATE: 8/2/89TIME: 1130DIRECTION OF
PHOTOGRAPH:
NorthwestWEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°FPHOTOGRAPHED BY:
Regina BayerSAMPLE ID
(if applicable):
S3DESCRIPTION: Soil sample S3.
Close-up view.DATE: 8/2/89TIME: 1130DIRECTION OF
PHOTOGRAPH:
NorthwestWEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°FPHOTOGRAPHED BY:
Regina BayerSAMPLE ID
(if applicable):
S3DESCRIPTION: Soil sample S3.
Perspective view. Sediment sample collected from a ditch
near the northwest corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 12 OF 20U.S. EPA ID: ILD059995123 TDD: F05-8612-077 PAN: FIL005553DATE: 8/2/89TIME: 1140DIRECTION OF
PHOTOGRAPH:East

WEATHER

CONDITIONS:

Sunny, hazytemp. ~90°F

PHOTOGRAPHED BY:

Régina Bayer

SAMPLE ID

(if applicable):

54DESCRIPTION: Soil sample 54.Close-up view.DATE: 8/2/89TIME: 1140DIRECTION OF
PHOTOGRAPH:East

WEATHER

CONDITIONS:

Sunny, hazytemp. ~90°F

PHOTOGRAPHED BY:

Régina Bayer

SAMPLE ID

(if applicable):

54DESCRIPTION: Soil sample 54.Perspective view. Surface soil sample collected from within the old reservoir used for deposition of the wet scrubber slurry.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 13 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1235

DIRECTION OF
PHOTOGRAPH:
Northwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
55



DESCRIPTION: Soil sample 55.

Close-up view.

DATE: 8/2/89

TIME: 1235

DIRECTION OF
PHOTOGRAPH:
Northwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
55



DESCRIPTION: Soil sample 55.

Perspective view. Surface soil sample collected from the
location of the former settling basin.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant

PAGE 14 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077

PAN: FILO0555B

DATE: 8/2/89

TIME: 1250

DIRECTION OF
PHOTOGRAPH:

Northwest

WEATHER

CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

56



DESCRIPTION: Soil sample 56.

Close-up view.

DATE: 8/2/89

TIME: 1250

DIRECTION OF
PHOTOGRAPH:

Northwest

WEATHER

CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

56



DESCRIPTION: Soil sample 56.

Perspective view. Sediment sample collected from a
culvert located near the west edge of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 15 OF 20

U.S. EPA ID: ILD059995123 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1305

DIRECTION OF
PHOTOGRAPH:
North

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
57



DESCRIPTION: Soil sample 57.
Close-up view.

DATE: 8/2/89

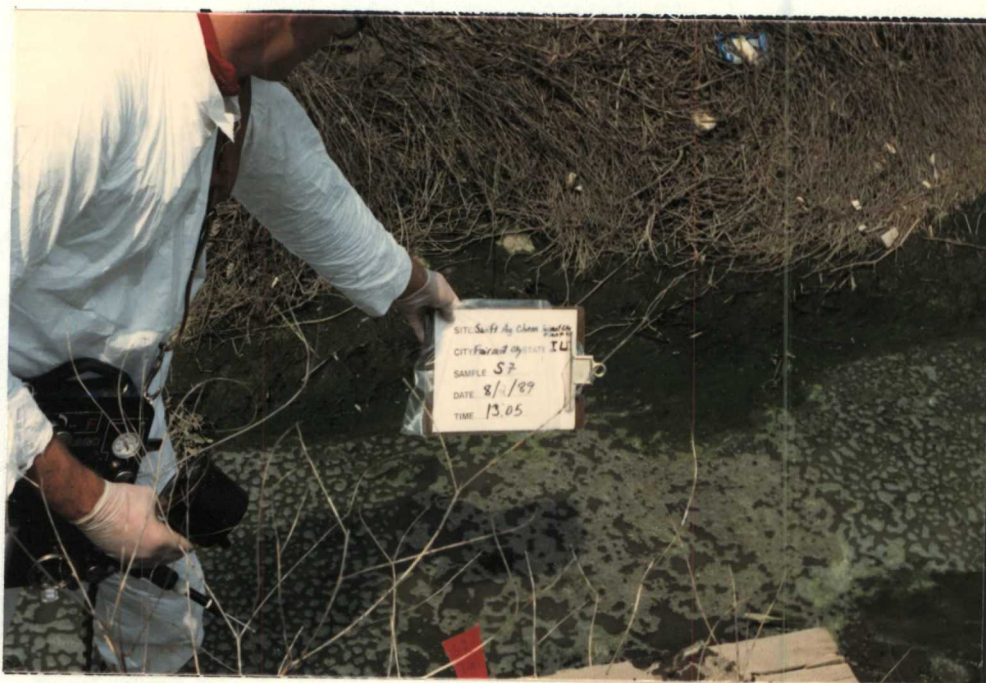
TIME: 1305

DIRECTION OF
PHOTOGRAPH:
North

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
57



DESCRIPTION: Soil sample 57.
Perspective view. Sediment sample collected from a ditch
located at the southwest corner of the site prior to its confluence
with a ditch located on the south side of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 16 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL0055SB

DATE: 8/2/89

TIME: 1315

DIRECTION OF
PHOTOGRAPH:
Northwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
SB



DESCRIPTION: Soil sample SB.

Perspective view. Sediment sample collected from a ditch
located at the southwest corner of the site just after its
confluence with a ditch located on the south side of the plant.

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 17 OF 20U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL00555BDATE: 8/2/89TIME: 1400DIRECTION OF
PHOTOGRAPH:West

WEATHER

CONDITIONS:

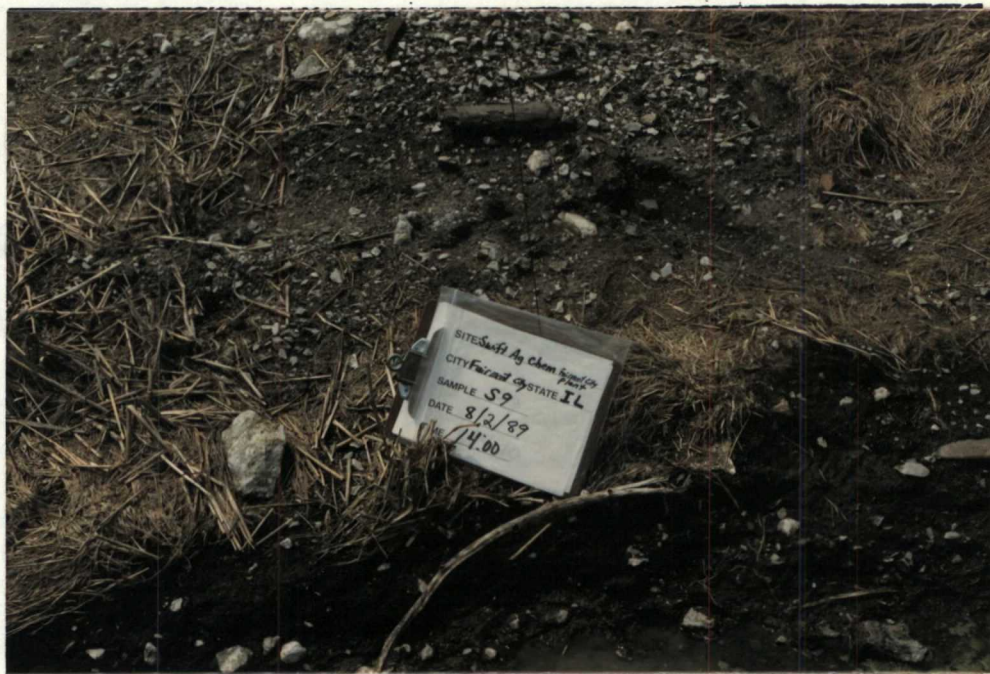
Sunny, hazytemp. ~ 90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

59DESCRIPTION: Soil sample 59.Close-up view.DATE: 8/2/89TIME: 1400DIRECTION OF
PHOTOGRAPH:North

WEATHER

CONDITIONS:

Sunny, hazytemp. ~ 90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

59DESCRIPTION: Soil sample 59.Perspective view. Sediment sample collected from a ditch located at the southeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 18 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

TIME: 1410

DIRECTION OF
PHOTOGRAPH:

North

WEATHER

CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

S10



DESCRIPTION: Soil sample S10.

Close-up view.

DATE: 8/2/89

TIME: 1410

DIRECTION OF
PHOTOGRAPH:

East

WEATHER

CONDITIONS:

Sunny, hazy

temp. ~90°F

PHOTOGRAPHED BY:

Regina Bayer

SAMPLE ID

(if applicable):

S10



DESCRIPTION: Soil sample S10.

Perspective view. Sediment sample collected from a ditch
located along the south side of the site, collected prior to
its reaching the east boundary of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 19 OF 20

U.S. EPA ID: ILD059995423 TDD: F05-8612-077 PAN: FIL00555B

DATE: 8/2/89

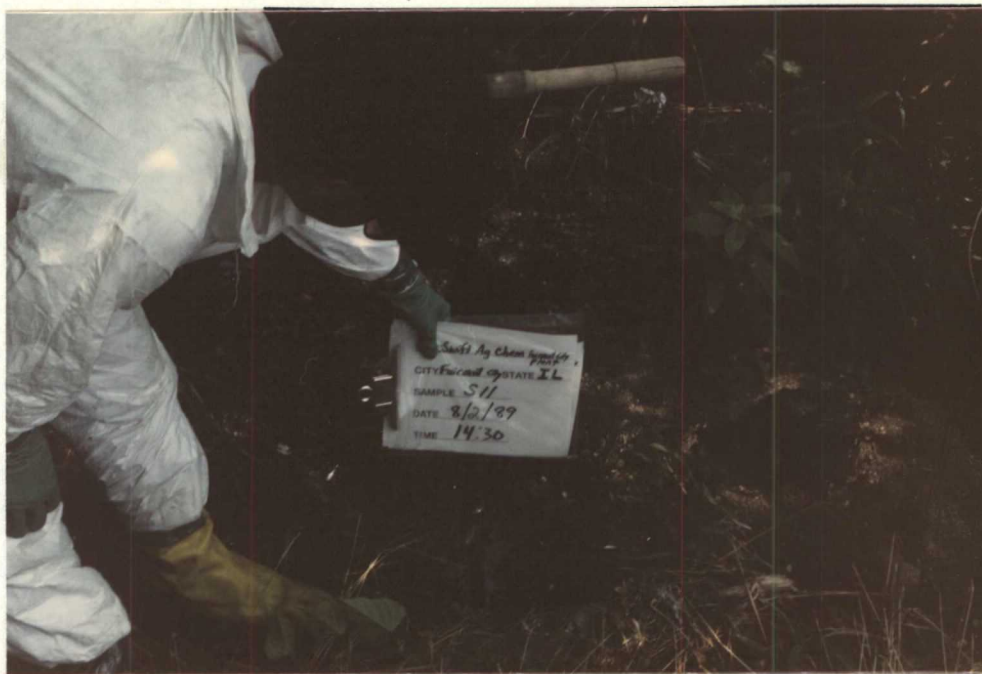
TIME: 1430

DIRECTION OF
PHOTOGRAPH:
Southeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
S11



DESCRIPTION: Soil sample S11.
Close-up view.

DATE: 8/2/89

TIME: 1430

DIRECTION OF
PHOTOGRAPH:
Southeast

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~ 90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
S11



DESCRIPTION: Soil sample S11.
Perspective view. Sediment sample collected offsite, from a
ditch located on the north side of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Swift Ag Chem - Fairmont City Plant PAGE 20 OF 20

U.S. EPA ID: ILD054995123 TDD: F05-8612-077 PAN: FIL0055SB

DATE: 8/2/89

TIME: 1435

DIRECTION OF
PHOTOGRAPH:
Southwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
512



DESCRIPTION: Soil sample 512.
Close-up view.

DATE: 8/2/89

TIME: 1435

DIRECTION OF
PHOTOGRAPH:
Southwest

WEATHER
CONDITIONS:
Sunny, hazy
temp. ~90°F

PHOTOGRAPHED BY:
Regina Bayer

SAMPLE ID
(if applicable):
512



DESCRIPTION: Soil sample 512.
Perspective view. Surface soil sample collected from the
east side of the site, near the old office building.

APPENDIX D

**U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A (Cont.)

CONTRACT LABORATORY PROGRAM
 TARGET ANALYTE LIST (TAL)
 INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

Walker

FRANK G. TOJO
7600 Caseyville Road
St. Clair County

Well Number..... No.1

Owned by..... Frank G. Tojo
7600 Caseyville Road, East St. Louis

Date drilled..... September 17, 1964

Drilled by..... Luhr Bros. Inc. Columbia, Illinois

Depth of hole..... 116.7 ft below ground surface.

Diameter of hole... 32 inches

Depth of well..... 116 ft below ground surface.

Casing..... 83 feet of 16-inch steel pipe. Top of casing extends
3 feet above ground surface.

Screen..... 36 feet of Doerr, 16-inch screen with bottom set at
116 feet below ground surface. Gravel-packed with
Merramec gravel.

Location of well... 150 feet North of Old Caseyville Road and 150 feet
South of Harding Ditch, approximately 1450 feet
East and 225 feet South of the North-west corner of
Section 14 T.2 N. R.9 W.

Log of well..... As classified by the driller:
0 to 15 feet. Clay
15 to 20 feet. Fine sand, gray.
20 to 25 feet. Coarse sand with 1/4" gravel.
25 to 30 feet. Clay, silty, with Very coarse sand.
30 to 35 feet. Sand with some clay.
35 to 116.5 feet. Coarse sand with gray clay lens.

Pump..... Permanent pump has been installed. It is a Worthington
turbine, powered by an Allis Chalmers, butane, engine. ✓
The pump setting is as follows:
40 feet of 8-inch column pipe.
4 feet of 3stage, 12-inch bowl assembly.
10 feet of 8-inch tail pipe.
54 feet total length of pump setting.

Static level..... 16.77 feet (when drilled as reported by the driller)

Pumping level..... 28.87 feet (when drilled as reported by the driller)
This level was after pumping at 1270 gpm
but the length of time pump is not known.

Well used for..... Mr. Tojo raises fish for bait and uses the well to
supply water to two ponds, one is of 1 acre surface
and the other is 2 1/2 acre surface.
A water sample was collected January 22, 1966 for
mineral, analysis. The sample expressed to State
Water Survey Laboratory, Champaign, Illinois.

E. H. Jones

WELL INVENTORY SCHEDULE

Well No. _____
Owner's No. _____

Location _____ County _____

Section _____ Twp. No. 11 Range _____

Feet from Sec. Cor. _____

Owner Allied Chemical Address _____

Driller _____ Address _____

Date drilled 1916 Method _____Depth 115' Hole record 38"Casing record 20" OD - 40' - 1.6' - 74.6' C.C.P. with 11' thicknessScreen record 40' - 1.6' - 74.6' - 115' 94.6' - 115'
Gravel pack: to 28' above screen, WB 90 1/2" to 1/8"Log C.C.P. Drill cuttings _____ Sample set no. _____Chief aquifer 20' - 40' - 74.6' - 115' from _____ to _____ Other aquifer _____

Land surface elev. _____ Topography _____

Nonpumping level _____ above
below measuring point on _____ at _____ AM
(date) PMPumping level _____ above
below measuring point after pumping at _____ AM
_____ gpm for _____ hours on _____ at _____ PM
(date)

Measuring point (MP) for above measurements _____

Airline and measuring equipment _____

Pump and power _____

Use of water _____

Water quality _____

Analysis No. and date _____ Temp. 57.1°FData collected by W.H.P. Date 10-7-72Source of information Mr. D. E. ...

Can well be used in pumping test? _____ Are nearby observation

wells available? _____ Are pumping records available? _____

Are water level records available? _____

Remarks: _____

Log

0-7 Top Alum. sand white
7-27 Clay
29-51 Fine sand, bl-w
51-74 Clay
74-74 Sand
74-115 Sand, coarse

Copies

1- Doc Gerhardt
Allied Chemical Corp.
5424p. 1000 Ry
E. St. Louis, Illinois - 6220

1- R.J. Schlicht (sws)

1- W. H. Barren. (sws)
Collinsville

White Copy - Health
Yellow Copy - Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUEST AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, ST. C. OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH, GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Lug ☐ Bored ☐ Hole Diam. in. Depth 63 ft.
Curb material Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. in. Depth ft.
c. Drilled ☒ Finished in Drift In Rock
Tubular Gravel Packed
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building Ft. Seepage Tile Field
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank Barnyard
Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed Nov 15

5. Permanent Pump Installed? Yes ☐ No ☒

Manufacturer Type
Capacity gpm. Depth of setting ft.

6. Well Top Sealed? Yes ☒ No ☐

7. Pitless Adaptor Installed? Yes ☐ No ☐

8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Thomas Nagle Well No. 33
Address 1900 Dunham Road
Driller D. S. Dilling License No. 171-131
11. Permit No. 26727 Date Nov 27 - 1973
12. Water from Loose sand 13. County St. Clair
at depth 12 to 63 ft. Sec. 14.3d
14. Screen: Diam. 4 in. Twp. 2N
Length: 5 ft. Slot Rge. 9W
Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6 1/4</u>	<u>16</u>	<u>0</u>	<u>63</u>

SHOW
LOCATION IN
SECTION PLAT
N E N W S E

16. Size Hole below casing: 6 1/4 in.

17. Static level 12 ft. below casing top which is ft.
above ground level. Pumping level 15 ft. when pumping at 10
gpm for 10 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Overburden</u>	<u>12</u>	<u>12</u>
<u>Loose sand</u>	<u>51</u>	<u>63</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Raymond D. Dilling DATE Nov 30, 1973

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO D I ERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 36 in. Depth 70 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☒
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☒
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
gravel	70	10
concrete	10	0

2. Distance to Nearest:

Building ok Ft. Seepage Tile Field ok
Cess Pool ok Sewer (non Cast iron) ok
Privy ok Sewer (Cast iron) ok
Septic Tank ok Barnyard ok
Leaching Pit ok Manure Pile ok

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed Nov. 6, 1980

5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒

Manufacturer ☐ Type ☐ Location ☐

Capacity ☐ gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type concrete cap

7. Pitless Adapter Installed? Yes ☐ No ☐

Manufacturer ☐ Model Number ☐

How attached to casing? ☐

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size ☐ gal. Type ☐

Location ☐

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Farmers Energy Corp. Well No. ☐

Address Box #176, National City, Ill.

Driller Clarence Kohnen License No. 102-30

11. Permit No. #96992 Date Oct. 28, 1980

12. Water from sand & gravel 13. County St. Clair

Formation
at depth 32 to 70 ft. Sec. 6.69

14. Screen: Diam. ☐ in. Twp. 2 N

Length: ☐ ft. Slot ☐ Rge. 9 W

Elev. ☒

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
36	concrete pipe	0+1	70

SHOW
LOCATION IN
SECTION PLAT

89 W, 92 W, SE/4 S W NE NW

16. Size Hole below casing: ☐ in.

17. Static level ☐ ft. below casing top which is ☐ ft.
above ground level. Pumping level ☐ ft. when pumping at ☐
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
top soil brown	2	2
dark clay	4	6
dark clay - sand	24	30
dark gray sand - fine	5	35
gray sand & gravel	31	66
gray clay - sand & gravel	2	68
redish gray sand & gravel	2	70

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Clarence Kohnen DATE 12-3-80

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

Steve Cunningham

- a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
Curb material____. Buried Slab: Yes____No____
- b. Driven____. Drive Pipe Diam.____in. Depth____ft.
- c. Drilled X. Finished in Drift____. In Rock____.
Tubular____. Gravel Packed X.
- d. Grout: _____

(KIND)	FROM (Fl.)	TO (Fl.)
Cuttings	0	80

- Building _____ Ft. Seepage Tile Field _____
Cess Pool _____ Sewer (non Cast iron) _____
Privy _____ Sewer (Cast iron) _____
Septic Tank _____ Barnyard _____
Leaching Pit _____ Manure Pile _____

3. Well furnishes water for human consumption? Yes X No _____
4. Date well completed 7-24-81
5. Permanent Pump Installed? Yes X Date 7-31-81 No _____
Manufacturer Sta-Rite Type Subm. Location Well
Capacity 10 gpm. Depth of Setting 60 _____ Ft.
6. Well Top Sealed? Yes X No _____ Type _____
7. Pitless Adapter Installed? Yes X No _____
Manufacturer Merrill Model Number MBP
How attached to casing? Bolted
8. Well Disinfected? Yes X No _____
9. Pump and Equipment Disinfected? Yes X No _____
10. Pressure Tank Size 82 gal. Type Captive air
Location in building
11. Water Sample Submitted? Yes _____ No X

10. Property owner Metro East Auto Salvage Well No. _____
Address 2450 Black Lane, Caseyville, ILL 62232
Driller St. Charles Drilling Co License No. 092006535 C.P. Chitwood

11. Permit No. 100466 Date 7/9/81

12. Water from Gravel Formation
at depth 80 to 84 ft.

13. County St. Clair

14. Screen: Diam. 6 in.
Length: 4 ft. Slot _____

Sec. 1.5a
Twp. 2 N
Rge. 9 W
Elev. _____

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
80 6"	19 # Steel	0	80

SHOW
LOCATION IN
SECTION PLAT
50'N 100'W

(Household + commercial operation)

16. Size Hole below casing: 6 in.
17. Static level _____ ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at 100 gpm for _____ hours.

[illegible]

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 8/27/81

St. Clair County Basic Data Folder

72N R9W Sec 6

WELL NO. **New #7**

St Clair

Material Drilled	Screen and Riser	Test Pumping
5 Cinder Fill		
6 Concrete Slab		
10 Fine Yellow Sand		
15 Yellow Clay		
20 Fine Sand		
25 Med. Fine Sand		
30 Coarse Brown Sand & Gravel		
35 Fine Gray Sand		
40 Very Coarse Gray Sand		
45 Fine Blue Coarse Sand		
50 50 Med. Fine Sand		
55 Fine Gray Sand with Gravel		
60 Coarse Sand		
65 Coarse Sand & Gravel		
70 Coarse Sand & Gravel		
75 Cobble		
80 Coarse Sand		
85 Cobble		
90 Cobble		
95 Cobble		
100 Heavy Cobble		
105		
110		
115		
120		
125		
130		
135		
140		
145		
150		

Name **Hunter Packing**

Location **East St. Louis, Illinois (Parking Lot)**

Date **3-22-57**

Well Depth **100.0'**

Casing Size **16"**

Length - Screen **40' - 1/4" slot, Steel 3/16"**

Length - Riser **61.5' - 1/4" steel, 1.5' above grade**

Tons Gravel **15 - 16 Tons**

Static Water Level **50'**

Equipment Used: **Hours Run:**

International **Frank's Drill Rig**

Driller: **M. Frank**